

10/12/2015
Ms. Marie Heap
Arcadis U.S., Inc.
132 East Washington St., Suite 600

Indianapolis IN 46204

Project Name: Grenada Manufacturing
Project #: IN000899.2013
Workorder #: 1509512

Dear Ms. Marie Heap

The following report includes the data for the above referenced project for sample(s) received on 9/30/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

A Eurofins Lancaster Laboratories Company

WORK ORDER #: 1509512

Work Order Summary

CLIENT:	Ms. Marie Heap Arcadis U.S., Inc. 132 East Washington St., Suite 600 Indianapolis, IN 46204	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	317-231-6500	P.O. #	IN000899.2013
FAX:	317-231-6514	PROJECT #	IN000899.2013 Grenada Manufacturing
DATE RECEIVED:	09/30/2015	CONTACT:	Ausha Scott
DATE COMPLETED:	10/12/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	1-AA(092215)	Modified TO-15	9.0 "Hg	5 psi
01B	1-AA(092215)	Modified TO-15	9.0 "Hg	5 psi
02A	2-AA(092215)	Modified TO-15	8.0 "Hg	5 psi
02B	2-AA(092215)	Modified TO-15	8.0 "Hg	5 psi
03A	6-IA(092215)	Modified TO-15	7.0 "Hg	5 psi
03B	6-IA(092215)	Modified TO-15	7.0 "Hg	5 psi
04A	1-IA(092215)	Modified TO-15	8.0 "Hg	5 psi
04B	1-IA(092215)	Modified TO-15	8.0 "Hg	5 psi
05A	5-IA(092215)	Modified TO-15	9.0 "Hg	5 psi
05B	5-IA(092215)	Modified TO-15	9.0 "Hg	5 psi
06A	2-IA(092215)	Modified TO-15	7.0 "Hg	5 psi
06B	2-IA(092215)	Modified TO-15	7.0 "Hg	5 psi
07A	3-IA(092215)	Modified TO-15	7.0 "Hg	5 psi
07B	3-IA(092215)	Modified TO-15	7.0 "Hg	5 psi
08A	4-IA(092215)	Modified TO-15	7.5 "Hg	5 psi
08B	4-IA(092215)	Modified TO-15	7.5 "Hg	5 psi
09A	Lab Blank	Modified TO-15	NA	NA
09B	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA

Continued on next page

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<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>	<u>FINAL</u>
			VAC./PRES.	PRESSURE
11BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



DATE: 10/12/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Arcadis U.S., Inc.
Workorder# 1509512**

Eight 6 Liter Summa Canister (SIM Certified) samples were received on September 30, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+ - 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%;, flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%;, flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample 2-AA(092215) did not match the information on the canister with regard to canister identification. The information on the canister was used to process and report the sample.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Dilution was performed on samples 6-IA(092215), 1-IA(092215), 2-IA(092215), and 3-IA(092215) due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 1-AA(092215)

Lab ID#: 1509512-01A

No Detections Were Found.

Client Sample ID: 1-AA(092215)

Lab ID#: 1509512-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.019	0.040	0.049	0.10
cis-1,2-Dichloroethene	0.038	0.21	0.15	0.85
Benzene	0.096	0.095 J	0.30	0.30 J
Trichloroethene	0.038	0.22	0.20	1.2
Toluene	0.038	0.18	0.14	0.66
m,p-Xylene	0.076	0.12	0.33	0.52
o-Xylene	0.038	0.066	0.16	0.29

Client Sample ID: 2-AA(092215)

Lab ID#: 1509512-02A

No Detections Were Found.

Client Sample ID: 2-AA(092215)

Lab ID#: 1509512-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.018 J	0.047	0.046 J
cis-1,2-Dichloroethene	0.037	0.17	0.14	0.67
Benzene	0.092	0.099	0.29	0.32
Trichloroethene	0.037	0.19	0.20	1.0
Toluene	0.037	0.24	0.14	0.89
Ethyl Benzene	0.037	0.054	0.16	0.24
m,p-Xylene	0.073	0.19	0.32	0.83
o-Xylene	0.037	0.083	0.16	0.36

Client Sample ID: 6-IA(092215)

Lab ID#: 1509512-03A

No Detections Were Found.

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 6-IA(092215)

Lab ID#: 1509512-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.088	0.097	0.35	0.38
Chloroform	0.088	0.12	0.43	0.56
Trichloroethene	0.088	0.12	0.47	0.65
Toluene	0.088	1.0	0.33	3.9
Ethyl Benzene	0.088	0.14	0.38	0.63
m,p-Xylene	0.18	0.49	0.76	2.1
o-Xylene	0.088	0.23	0.38	1.0

Client Sample ID: 1-IA(092215)

Lab ID#: 1509512-04A

No Detections Were Found.

Client Sample ID: 1-IA(092215)

Lab ID#: 1509512-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.092	0.15	0.36	0.61
Chloroform	0.092	0.15	0.45	0.75
Benzene	0.23	1.2	0.73	3.8
1,2-Dichloroethane	0.092	0.21	0.37	0.84
Trichloroethene	0.092	0.20	0.49	1.1
Toluene	0.092	1.4	0.34	5.4
Ethyl Benzene	0.092	0.23	0.40	1.0
m,p-Xylene	0.18	0.59	0.80	2.6
o-Xylene	0.092	0.22	0.40	0.95

Client Sample ID: 5-IA(092215)

Lab ID#: 1509512-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.38	0.59	1.3	2.0



Air Toxics

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 5-IA(092215)**Lab ID#: 1509512-05B**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.019	0.024	0.049	0.062
cis-1,2-Dichloroethene	0.038	0.16	0.15	0.65
Chloroform	0.038	0.044	0.19	0.21
Benzene	0.096	0.27	0.30	0.86
1,2-Dichloroethane	0.038	0.044	0.15	0.18
Trichloroethene	0.038	0.16	0.20	0.86
Toluene	0.038	0.70	0.14	2.6
Ethyl Benzene	0.038	0.12	0.16	0.55
m,p-Xylene	0.076	0.37	0.33	1.6
o-Xylene	0.038	0.13	0.16	0.56

Client Sample ID: 2-IA(092215)**Lab ID#: 1509512-06A**

No Detections Were Found.

Client Sample ID: 2-IA(092215)**Lab ID#: 1509512-06B**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.088	0.14	0.35	0.57
Chloroform	0.088	0.19	0.43	0.91
Benzene	0.22	0.25	0.70	0.81
1,2-Dichloroethane	0.088	1.7	0.35	7.0
Trichloroethene	0.088	0.20	0.47	1.1
Toluene	0.088	2.1	0.33	7.9
Ethyl Benzene	0.088	0.20	0.38	0.85
m,p-Xylene	0.18	0.43	0.76	1.9
o-Xylene	0.088	0.25	0.38	1.1

Client Sample ID: 3-IA(092215)**Lab ID#: 1509512-07A**

No Detections Were Found.

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: 3-IA(092215)

Lab ID#: 1509512-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.35	0.86	1.7	4.2
Toluene	0.35	1.5	1.3	5.6

Client Sample ID: 4-IA(092215)

Lab ID#: 1509512-08A

No Detections Were Found.

Client Sample ID: 4-IA(092215)

Lab ID#: 1509512-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.031	0.046	0.079
cis-1,2-Dichloroethene	0.036	0.14	0.14	0.58
Chloroform	0.036	0.19	0.17	0.94
Benzene	0.090	0.58	0.28	1.8
1,2-Dichloroethane	0.036	0.30	0.14	1.2
Trichloroethene	0.036	0.18	0.19	0.99
Toluene	0.036	0.72	0.13	2.7
Ethyl Benzene	0.036	0.10	0.16	0.43
m,p-Xylene	0.072	0.26	0.31	1.1
o-Xylene	0.036	0.13	0.16	0.56



Air Toxics

Client Sample ID: 1-AA(092215)

Lab ID#: 1509512-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100507	Date of Collection:	9/23/15 10:43:00 AM	
Dil. Factor:	1.91	Date of Analysis:	10/5/15 01:51 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.38	Not Detected	1.3	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: 1-AA(092215)

Lab ID#: 1509512-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100507sim	Date of Collection:	9/23/15 10:43:00 AM	
Dil. Factor:	1.91	Date of Analysis:	10/5/15 01:51 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.019	0.040	0.049	0.10
1,1-Dichloroethene	0.019	Not Detected	0.076	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
cis-1,2-Dichloroethene	0.038	0.21	0.15	0.85
Chloroform	0.038	Not Detected	0.19	Not Detected
Benzene	0.096	0.095 J	0.30	0.30 J
1,2-Dichloroethane	0.038	Not Detected	0.15	Not Detected
Trichloroethene	0.038	0.22	0.20	1.2
Toluene	0.038	0.18	0.14	0.66
1,1,2-Trichloroethane	0.038	Not Detected	0.21	Not Detected
Tetrachloroethene	0.038	Not Detected	0.26	Not Detected
Ethyl Benzene	0.038	Not Detected	0.16	Not Detected
m,p-Xylene	0.076	0.12	0.33	0.52
o-Xylene	0.038	0.066	0.16	0.29

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: 2-AA(092215)

Lab ID#: 1509512-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100508	Date of Collection:	9/23/15 4:17:00 PM	
Dil. Factor:	1.83	Date of Analysis:	10/5/15 02:46 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.37	Not Detected	1.3	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.90	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: 2-AA(092215)

Lab ID#: 1509512-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100508sim	Date of Collection: 9/23/15 4:17:00 PM		
Dil. Factor:	1.83	Date of Analysis: 10/5/15 02:46 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.018 J	0.047	0.046 J
1,1-Dichloroethene	0.018	Not Detected	0.072	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
cis-1,2-Dichloroethene	0.037	0.17	0.14	0.67
Chloroform	0.037	Not Detected	0.18	Not Detected
Benzene	0.092	0.099	0.29	0.32
1,2-Dichloroethane	0.037	Not Detected	0.15	Not Detected
Trichloroethene	0.037	0.19	0.20	1.0
Toluene	0.037	0.24	0.14	0.89
1,1,2-Trichloroethane	0.037	Not Detected	0.20	Not Detected
Tetrachloroethene	0.037	Not Detected	0.25	Not Detected
Ethyl Benzene	0.037	0.054	0.16	0.24
m,p-Xylene	0.073	0.19	0.32	0.83
o-Xylene	0.037	0.083	0.16	0.36

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: 6-IA(092215)

Lab ID#: 1509512-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100509	Date of Collection:	9/23/15 10:58:00 AM	
Dil. Factor:	4.38	Date of Analysis:	10/5/15 03:37 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,2,4-Trimethylbenzene	0.44	Not Detected	2.2	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: 6-IA(092215)

Lab ID#: 1509512-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100509sim	Date of Collection:	9/23/15 10:58:00 AM	
Dil. Factor:	4.38	Date of Analysis:	10/5/15 03:37 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.044	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.044	Not Detected	0.17	Not Detected
trans-1,2-Dichloroethene	0.44	Not Detected	1.7	Not Detected
cis-1,2-Dichloroethene	0.088	0.097	0.35	0.38
Chloroform	0.088	0.12	0.43	0.56
Benzene	0.22	Not Detected	0.70	Not Detected
1,2-Dichloroethane	0.088	Not Detected	0.35	Not Detected
Trichloroethene	0.088	0.12	0.47	0.65
Toluene	0.088	1.0	0.33	3.9
1,1,2-Trichloroethane	0.088	Not Detected	0.48	Not Detected
Tetrachloroethene	0.088	Not Detected	0.59	Not Detected
Ethyl Benzene	0.088	0.14	0.38	0.63
m,p-Xylene	0.18	0.49	0.76	2.1
o-Xylene	0.088	0.23	0.38	1.0

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: 1-IA(092215)

Lab ID#: 1509512-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100510	Date of Collection:	9/23/15 12:02:00 PM	
Dil. Factor:	4.58	Date of Analysis:	10/5/15 04:24 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.92	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.46	Not Detected	2.2	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: 1-IA(092215)

Lab ID#: 1509512-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100510sim	Date of Collection: 9/23/15 12:02:00 PM		
Dil. Factor:	4.58	Date of Analysis: 10/5/15 04:24 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.046	Not Detected	0.12	Not Detected
1,1-Dichloroethene	0.046	Not Detected	0.18	Not Detected
trans-1,2-Dichloroethene	0.46	Not Detected	1.8	Not Detected
cis-1,2-Dichloroethene	0.092	0.15	0.36	0.61
Chloroform	0.092	0.15	0.45	0.75
Benzene	0.23	1.2	0.73	3.8
1,2-Dichloroethane	0.092	0.21	0.37	0.84
Trichloroethene	0.092	0.20	0.49	1.1
Toluene	0.092	1.4	0.34	5.4
1,1,2-Trichloroethane	0.092	Not Detected	0.50	Not Detected
Tetrachloroethene	0.092	Not Detected	0.62	Not Detected
Ethyl Benzene	0.092	0.23	0.40	1.0
m,p-Xylene	0.18	0.59	0.80	2.6
o-Xylene	0.092	0.22	0.40	0.95

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: 5-IA(092215)

Lab ID#: 1509512-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100511	Date of Collection:	9/23/15 1:05:00 PM	
Dil. Factor:	1.91	Date of Analysis:	10/5/15 05:19 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.38	0.59	1.3	2.0
1,2,4-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: 5-IA(092215)

Lab ID#: 1509512-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100511sim	Date of Collection: 9/23/15 1:05:00 PM		
Dil. Factor:	1.91	Date of Analysis: 10/5/15 05:19 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.019	0.024	0.049	0.062
1,1-Dichloroethene	0.019	Not Detected	0.076	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
cis-1,2-Dichloroethene	0.038	0.16	0.15	0.65
Chloroform	0.038	0.044	0.19	0.21
Benzene	0.096	0.27	0.30	0.86
1,2-Dichloroethane	0.038	0.044	0.15	0.18
Trichloroethene	0.038	0.16	0.20	0.86
Toluene	0.038	0.70	0.14	2.6
1,1,2-Trichloroethane	0.038	Not Detected	0.21	Not Detected
Tetrachloroethene	0.038	Not Detected	0.26	Not Detected
Ethyl Benzene	0.038	0.12	0.16	0.55
m,p-Xylene	0.076	0.37	0.33	1.6
o-Xylene	0.038	0.13	0.16	0.56

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: 2-IA(092215)

Lab ID#: 1509512-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100512	Date of Collection:	9/23/15 2:08:00 PM	
Dil. Factor:	4.38	Date of Analysis:	10/5/15 06:04 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,2,4-Trimethylbenzene	0.44	Not Detected	2.2	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: 2-IA(092215)

Lab ID#: 1509512-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100512sim	Date of Collection: 9/23/15 2:08:00 PM		
Dil. Factor:	4.38	Date of Analysis: 10/5/15 06:04 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.044	Not Detected	0.11	Not Detected
1,1-Dichloroethene	0.044	Not Detected	0.17	Not Detected
trans-1,2-Dichloroethene	0.44	Not Detected	1.7	Not Detected
cis-1,2-Dichloroethene	0.088	0.14	0.35	0.57
Chloroform	0.088	0.19	0.43	0.91
Benzene	0.22	0.25	0.70	0.81
1,2-Dichloroethane	0.088	1.7	0.35	7.0
Trichloroethene	0.088	0.20	0.47	1.1
Toluene	0.088	2.1	0.33	7.9
1,1,2-Trichloroethane	0.088	Not Detected	0.48	Not Detected
Tetrachloroethene	0.088	Not Detected	0.59	Not Detected
Ethyl Benzene	0.088	0.20	0.38	0.85
m,p-Xylene	0.18	0.43	0.76	1.9
o-Xylene	0.088	0.25	0.38	1.1

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: 3-IA(092215)

Lab ID#: 1509512-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100513	Date of Collection:	9/23/15 3:33:00 PM	
Dil. Factor:	17.5	Date of Analysis:	10/5/15 06:49 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	3.5	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	1.8	Not Detected	8.6	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: 3-IA(092215)

Lab ID#: 1509512-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100513sim	Date of Collection: 9/23/15 3:33:00 PM		
Dil. Factor:	17.5	Date of Analysis: 10/5/15 06:49 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.69	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	6.9	Not Detected
cis-1,2-Dichloroethene	0.35	Not Detected	1.4	Not Detected
Chloroform	0.35	0.86	1.7	4.2
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.35	Not Detected	1.4	Not Detected
Trichloroethene	0.35	Not Detected	1.9	Not Detected
Toluene	0.35	1.5	1.3	5.6
1,1,2-Trichloroethane	0.35	Not Detected	1.9	Not Detected
Tetrachloroethene	0.35	Not Detected	2.4	Not Detected
Ethyl Benzene	0.35	Not Detected	1.5	Not Detected
m,p-Xylene	0.70	Not Detected	3.0	Not Detected
o-Xylene	0.35	Not Detected	1.5	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: 4-IA(092215)

Lab ID#: 1509512-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100514	Date of Collection:	9/23/15 4:47:00 PM	
Dil. Factor:	1.79	Date of Analysis:	10/5/15 07:52 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: 4-IA(092215)

Lab ID#: 1509512-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100514sim	Date of Collection: 9/23/15 4:47:00 PM		
Dil. Factor:	1.79	Date of Analysis: 10/5/15 07:52 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.031	0.046	0.079
1,1-Dichloroethene	0.018	Not Detected	0.071	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
cis-1,2-Dichloroethene	0.036	0.14	0.14	0.58
Chloroform	0.036	0.19	0.17	0.94
Benzene	0.090	0.58	0.28	1.8
1,2-Dichloroethane	0.036	0.30	0.14	1.2
Trichloroethene	0.036	0.18	0.19	0.99
Toluene	0.036	0.72	0.13	2.7
1,1,2-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
Ethyl Benzene	0.036	0.10	0.16	0.43
m,p-Xylene	0.072	0.26	0.31	1.1
o-Xylene	0.036	0.13	0.16	0.56

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1509512-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100506	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	10/5/15 12:51 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1509512-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100506sim	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 10/5/15 12:51 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1509512-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100502	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/5/15 09:23 AM

Compound	%Recovery
Methylene Chloride	93
1,2,4-Trimethylbenzene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1509512-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100502sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/5/15 09:23 AM

Compound	%Recovery
Vinyl Chloride	99
1,1-Dichloroethene	94
trans-1,2-Dichloroethene	89
cis-1,2-Dichloroethene	101
Chloroform	103
Benzene	88
1,2-Dichloroethane	108
Trichloroethene	87
Toluene	96
1,1,2-Trichloroethane	93
Tetrachloroethene	88
Ethyl Benzene	103
m,p-Xylene	99
o-Xylene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1509512-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100503	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/5/15 10:09 AM

Compound	%Recovery	Method Limits
Methylene Chloride	102	70-130
1,2,4-Trimethylbenzene	95	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1509512-11AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100504	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/5/15 10:48 AM

Compound	%Recovery	Method Limits
Methylene Chloride	104	70-130
1,2,4-Trimethylbenzene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1509512-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100503sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/5/15 10:09 AM

Compound	%Recovery	Method Limits
Vinyl Chloride	111	70-130
1,1-Dichloroethene	100	70-130
trans-1,2-Dichloroethene	81	70-130
cis-1,2-Dichloroethene	118	70-130
Chloroform	109	70-130
Benzene	96	70-130
1,2-Dichloroethane	115	70-130
Trichloroethene	94	70-130
Toluene	104	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	95	70-130
Ethyl Benzene	111	70-130
m,p-Xylene	108	70-130
o-Xylene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1509512-11BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v100504sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/5/15 10:48 AM
Compound	%Recovery	Method	Limits
Vinyl Chloride	110	70-130	
1,1-Dichloroethene	101	70-130	
trans-1,2-Dichloroethene	83	70-130	
cis-1,2-Dichloroethene	119	70-130	
Chloroform	110	70-130	
Benzene	96	70-130	
1,2-Dichloroethane	116	70-130	
Trichloroethene	94	70-130	
Toluene	102	70-130	
1,1,2-Trichloroethane	101	70-130	
Tetrachloroethene	96	70-130	
Ethyl Benzene	106	70-130	
m,p-Xylene	101	70-130	
o-Xylene	103	70-130	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method	Limits
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	93	70-130	